

# G21 Fire Panel - UL Walls

External Sandwich Walls

Sheet 10.1.0.0 -2 - Version 13/06/2022

## Performances

- Fire resistance 2,5 hours fire rating in accordance with CAN/ULC-S101 / ASTM E119 / UL263 including water hose test directly after fire test.
- Sound insulation 30 dB in accordance with EN ISO 140-3.
- Thermal insulation  $U = 0.24 \text{ W/m}^2\text{K}$ .
- Durability Design life of 40 years with minimum maintenance.
- Weight  $30.5 \text{ kg/m}^2$  at 172 mm panel thickness.
- Core density  $120 \text{ kg/m}^3$  - EN 14509.
- Air leakage  $0.03 \text{ L/s}\cdot\text{m}^2$  infiltration at 75 Pa (1.57 psf) in accordance with ASTM E283-12.  
 $0.01 \text{ L/s}\cdot\text{m}^2$  infiltration at 300 Pa (6.27 psf) in accordance with ASTM E283-12.  
 $0.03 \text{ L/s}\cdot\text{m}^2$  exfiltration at 75 Pa (1.57 psf) in accordance with ASTM E283-12.  
 $0.57 \text{ L/s}\cdot\text{m}^2$  exfiltration at 300 Pa (6.27 psf) in accordance with ASTM E283-12.  
 $< 0.6 \text{ m}^3/\text{m}^2\text{h}$  at 50 Pa in accordance with EN 12114.
- Flame spread Class A (FSI 0-20, SDI 35 - 300) in accordance with ASTM E84 / CAN/ULC-S102.
- Water permeability (EN 14509) No uncontrolled leakage at 720 Pa (15.04 psf) in accordance with ASTM 331-16.  
Class A (1200Pa) in accordance with EN 14509.  
No water penetration at test pressure 2100 Pa, test method A, EN 12865.
- Structural Performance Design pressure:  $\pm 100 \text{ psf}$  in accordance with ASTM E330-14.  
Test pressure:  $\pm 150 \text{ psf}$  in accordance with ASTM E330-14.
- Certification UL listed, File: R40035 - US Certification

## Materials

- Core material 172 mm mineral wool.
- Panel skins  $0.6 \text{ mm}$  coil coated galvanized steel sheets in accordance with ASTM A653 including ZA with Prisma coating, thickness 40 micron external skin.  
  
 $0.6 \text{ mm}$  coil coated galvanized steel sheets in accordance with ASTM A653 including ZA with PVDF coating, thickness 25 micron internal skin.  
- Corrosion resistance 1000 h salt spray test - EN 13523-8 / - ASMT B117, evaluation acc. ASTM D1654 & D714.  
- Corrosion resistance 1500 h humidity - EN 13523-26.  
- Corrosion resistance category RC5 - EN 10169:2010.

## Overview



front view (3D)